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[1. A12-100: 3 kW Lightweight Efficient Generator](#)

Release Date: 04-24-2012 Open Date: 05-24-2012 Due Date: 06-27-2012 Close Date: 06-27-2012

OBJECTIVE: The objective of this project is to design, develop, and demonstrate an advanced small, lightweight man portable multi-fueled 3,000 W power unit. A key tenet of this power unit is that it should take advantage of recent advances in small lightweight high speed internal combustion engines which include but are not limited to unmanned aerial vehicles (UAV) engines. DESCRIPTION: The ...

SBIR Army

[2. MDA12-003: 3G and 4G Communication System Interference Remediation Techniques](#)

Release Date: 04-24-2012 Open Date: 05-24-2012 Due Date: 06-27-2012 Close Date: 06-27-2012

OBJECTIVE: This research seeks novel algorithms and signal processing techniques that will minimize Aegis-to-3G&4G and 3G&4G-to Aegis interference. Space-time, adaptive and other approaches are sought for broadest utility and generality. DESCRIPTION: The Missile Defense Agency (MDA) is seeking the development of novel RF modulation, timing and phasing as well as orthogonal and bi-static ...

SBIR Missile Defense Agency

[3. A14-041: A LIDAR for Mapping Dense Aerosols](#)

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

OBJECTIVE: The objective is to develop a scanning lidar to measure the spatial evolution of dense obscurant clouds (one way transmission 0.25%) with high temporal and spatial resolution. The system should be capable of measuring an obscurant concentration point cloud contained in a 10x10x10 meter measurement volume with sample spacing of 1/5 meters and a total 3D cloud update rate of 1Hz. This m ...

SBIR Department of Defense Army

[4. A12-112: A New Generation of Actuators for Robotic Systems](#)

Release Date: 07-26-2012 Open Date: 08-27-2012 Due Date: 09-26-2012 Close Date: 09-26-2012

OBJECTIVE: Design and prototype adaptive actuators for medical robotic systems to improve the robotic capacity needed for future medical robotic applications, such as heavy patient lifting, combat casualty evacuation, dexterous manipulation, and combat casualty care. DESCRIPTION: Background. Today's robot systems have been evolving from industrial applications into human services. Robots are tr ...

SBIR Army

[5. A14-042: A Novel Method for Creating Microshear to Aerosolize Packed Powders](#)

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

OBJECTIVE: To develop a concept which produces microshear to efficiently separate and disseminate fine powders that are densely packed within a container. Concepts should address material agglomeration issues that arise with optimized packing densities. A systematic study of the forces necessary to overcome binding effects of the materials could be developed along with mathematical modeling to s ...

SBIR Department of Defense Army

[6. A11a-T015: A Priori Error-Controlled Simulations of Electromagnetic Phenomena for HPC](#)

Release Date: 01-27-2011 Open Date: 02-28-2011 Due Date: 03-30-2011 Close Date: 03-30-2011

OBJECTIVE: The objectives of this STTR are to investigate numerical methods for predictably-accurate treatment of boundary conditions in electromagnetic and other wave-dominated phenomena, and to develop algorithms and computer software that can be implemented for military and commercial simulation applications. DESCRIPTION: High fidelity modeling of electromagnetic phenomena has become incre ...

STTR Army

7. [A12-109: A Real-Time, Non-Invasive Monitoring System to Guide Accurate Fluid Resuscitation of Combat Casualties During Pre-Hospital and Transport Medical Care](#)

Release Date: 07-26-2012 Open Date: 08-27-2012 Due Date: 09-26-2012 Close Date: 09-26-2012

OBJECTIVE: Develop an advanced decision-support medical monitor driven by algorithms that provide real-time processing of physiologic signals for the purpose of guiding accurate fluid resuscitation in humans who are hypovolemic due to hemorrhaging. The algorithm will run in real time on a resource constrained portable device. The final device should provide a wireless connection between the patient ...

SBIR Army

8. [A13-083: A Software Tool to Assess Impact of Load Carriage and Body-Wearable Robotic Devices on Musculo-Skeletal Health and Performance](#)

Release Date: 04-24-2013 Open Date: 05-24-2013 Due Date: 06-26-2013 Close Date: 06-26-2013

OBJECTIVE: Develop a software simulation tool that models the external force/torque inputs and risk of injury to the musculoskeletal system of soldiers carrying loads with and without assistance from body-wearable robotic devices. DESCRIPTION: Soldiers, Marines, Sailors, and Airmen on foot and engaged in field training or combat operations often carry heavy loads (35-65 kg or more) consisting ...

SBIR Army

9. [A14-023: Abuse Tolerant High Energy LiCoPO4-Based 5V Li-ion Cells](#)

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

OBJECTIVE: The objective of this topic is to produce abuse tolerant, full LiCoPO4 based Li-ion cells of size greater than or equal to 1 Ah. DESCRIPTION: Li-ion batteries provide the most energy storage capability on a weight and volume basis and high energy dense batteries are needed to reduce the weight borne by the soldier. However, Li-ion batteries have been shown to be susceptible to abuse ...

SBIR Department of Defense Army

10. [MDA12-014: Acquisition, Tracking and Pointing Technologies for High Energy Laser Applications](#)

Release Date: 04-24-2012 Open Date: 05-24-2012 Due Date: 06-27-2012 Close Date: 06-27-2012

OBJECTIVE: Develop and demonstrate advanced and innovative components, algorithms and electronics supporting next generation acquisition, tracking and pointing (ATP) sensor and jitter control technologies to provide support to future missile defense missions using significantly less components than traditional applications. Even though ATP is a broad topic,

the MDA focus areas for this year are ...

SBIR Missile Defense Agency

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